EPA

United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

Form Approved.
OMB No. 2040-0057
Approval expires 8-31-98

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
N	PRU200980	050524	S	R	2

Remarks:

Inspection Work Days	Facility Self-Monitoring Evaluation Rating	B1	QA	Reserved
1				

Section B: Facility Data

Name and Location of Facility Inspected *(for industrial users discharging to POTW, also include POTW name and NPDES permit number)*

DRNA Baldorioty De Castro Pump Station
(Casa De Bombas Baldorioty De Castro)
Km 4.8 Avenida Baldority De Castro
San Juan, Puerto Rico

Entry Time/Date	Permit Effective Date
5/24/05 13:10	No Permit
Exit Time/Date	**Permit Expiration Date**
14:20	No Permit

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)

Angel Constantine - Supervisor
Ricardo Santana, Carlos Roman, Rafael Perez, Operators
(787) 724-8774

Other Facility Data

ICIS Number, 7729294

Name, Address of Responsible Official/Title/Phone and Fax Number(s)

Department de Recursos Naturales y Ambientales
Pta de Tierra Station, P.O. Box 9066600
San Juan, P.R. 00906-6600

Contacted: [ ] Yes [X] No

Section C: Areas Evaluated During Inspection *(Check only those areas evaluated)*

	Permit		Flow Measurement		Operations & Maintenance	X	CSO/SSO (Sewer Overflow)
	Records/Reports		Self-Monitoring Program		Sludge Handling/Disposal		Pollution Prevention
X	Facility Site Review		Compliance Schedules		Pretreatment		Multimedia
X	Effluent/Receiving Water		Laboratory		Storm Water		Other:

Section D: Summary of Findings/Comments *(Attach additional sheets of narrative and checklists as necessary)*

Below is a summary of non-compliance items:

Untreated sanitary wastewater from the Playita neighborhood which contains approximately one thousand homes is discharged from the pump station along with storm water from the Playita, Lloren Torres, and Ocean Beach neighborhoods to Laguna San Jose. Discharge of untreated wastewater is not authorized.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
Murray Lantner, P.E. Environmental Engineer	EPA/WCB/CS(212) 637-3976/ FAX: 637-4211	8/16/05
Signature of Management Q A Reviewer: Henry Mazzucca, P.E., Chief, Compliance Section	EPA/WCB/CS (212) 637-4229	8/16/05

EPA Form 3560-3 (Rev 9-94) Previous editions are obsolete

INSTRUCTIONS - EPA Form 3560-3

Section A: National Data System Coding (i.e., PCS)

Column 1: Transaction Code: Use N, C, or D for New, Change, or Delete. All inspections will be new unless there is an error in the data entered.

Columns 3-11: NPDES Permit No. Enter the facility's NPDES permit number. (Use the Remarks columns to record the State permit number, if necessary.)

Columns 12-17: Inspection Date. Insert the date entry was made into the facility. Use the year/month/day format (e.g., 94/06/30 = June 30, 1994).

Column 18: Inspection Type. Use one of the codes listed below to describe the type of inspection:

A Performance Audit
B Compliance Biomonitoring
C Compliance Evaluation (non-sampling)
D Diagnostic
E Corps of Engineers Inspection
F Pretreatment Follow-up
G Pretreatment Audit
I Industrial User (IU) Inspection
L Enforcement Case Support
M Multimedia
P Pretreatment Compliance Inspection
R Reconnaissance
S Compliance Sampling
U IU Inspection with Pretreatment Audit
X Toxics Inspection
Z Sludge
2 IU Sampling Inspection
3 IU Non-Sampling Inspection
4 IU Toxics Inspection
5 IU Sampling Inspection with Pretreatment
6 IU Non-Sampling Inspection with Pretreatment
7 IU Toxics with Pretreatment

Column 19: Inspector Code: Use one of the codes listed below to describe the lead agency in the inspection.

C - Contractor or Other Inspectors (Specify in Remarks columns)
E - Corps of Engineers
J - Joint EPA/State Inspectors - EPA lead
N - NEIC Inspectors
R - EPA Regional Inspector
S - State Inspector
T - Joint State/EPA Inspectors - State lead

Column 20: Facility Type. Use one of the codes below to describe the facility.

1 - Municipal. Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4952.
2 - Industrial. Other than municipal, agricultural, and Federal facilities.
3 - Agricultural. Facilities classified with 1987 SIC 0111 to 0971.
4 - Federal. Facilities identified as Federal by the EPA Regional Office.

Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a OA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring Information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as followup on quality assurance sample results. Enter N otherwise.

Columns 73-80: These columns are reserved for regionally defined information.

Section B: Facility Data

This section is self-explanatory except for "Other Facility Data", which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, and other updates to the record).

Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection. The heading marked "Multimedia" may indicate medias such as CAA, RCRA, and TSCA. The heading marked "Other" may indicate activities such as SPCC, BMPs, and concerns that are not covered elsewhere.

Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2, DECA-WCB-CS
20th Floor, 290 Broadway, NY, NY 10007

Compliance Sampling Inspection: DRNA Baldorioty de Castro Pump Station
NPDES Unauthorized Permit No.: PRU200980
ICIS Number: 7729294
Inspection Date - 5/24/05
Inspector: Murray Lantner, P.E, Environmental Engineer, USEPA Region 2 (212)637-3976
On-Site Representatives : Angel Constantine - Supervisor
Ricardo Santana, Carlos Roman, Rafael Perez, Operators (787) 726-0120

SIC Code: 4952 Sewerage Systems

A. INTRODUCTION:
On May 24, 2005 a compliance sampling inspection was conducted at the Departmento de Recursos Naturales y Ambientales ("DRNA") Baldorioty de Castro Pump Station. The Baldorioty Pump Station is located at Km. 4.8, Baldorioty de Castro, off of Highway 26 East in San Juan. The pump station consists of a wet well, bar screens, five operating pumps (three pumps with a capacity of 100,000 gpm and two pumps with a 50,000 gpm capacity), and four non operating pumps (with capacities of 50,000 or 100,000 gpm). The pump station discharges to the Laguna San Jose which flows into Martin Pena Channel and out into San Juan Bay. The flow from the pump station on May 23, 2005 was approximately 42.6 MGD and approximately 10.3 MGD on May 1, 2005. The Baldorioty pump station was said to receive storm water from Ocean Park, and half of the Lloren Torres neighborhoods, and storm water and sanitary wastewater from the Playita neighborhood (Villa Palmera, Eduardo Conde and Baldorioty). Sanitary sewage in the Playita neighborhood was said to be from approximately 1000 homes. Photographs of a pump and discharge pipe and discharge channel are shown in the attached photographs. Discharges from the pump station occur both during wet and dry weather, with larger discharges during wet weather events.

B. SAMPLING

Unofficial samples were collected in the discharge channel from the pump seen in the photographs. There was no rainfall during the inspection. The pump station operator manually turned on the pumps so that there was a discharge. Samples were collected in two different non-sterile sample containers, that were rinsed with tap water and rinsed in the discharge channel and transferred to five sterilized coliform bottles containing sodium thiosulfate tablets for dechlorination. The samples were placed in a cooler containing ice and were taken to the Puerto Rico Environmental Quality Board lab in San Juan and set up within the 6 hour holding time. (Chain of Custody and Sample results are attached). Note that proper sampling technique requires

that coliform and enterococci samples be collected directly into the sterile sampling container and not transferred from non-sterile containers. Nonetheless, since two separate sample containers were used to grab the sample from the discharge channel, and they were rinsed in tap water and in the discharge channel water, the sample results while unofficial, provide a general snapshot of the actual effluent quality. The 5 samples analyzed showed elevated levels of Fecal and Total Coliform and Enterococci. These bacteria levels are seen in the Table below and exceed the Puerto Rico Water Quality Standards (WQS) for Primary Contact (Swimming) and Indirect Contact Waters (Fishing and Boating).

Sample ID	Fecal Coliform (Col./100 ml)	Enterococci (Col./100 ml)	Total Coliform (Col./100ml)
DNR	952000	143500	1056000
DNR-2	839000	106000	891000
DNR-3	901000	85000	936000
DNR-4	871000	209000	907000
DNR-5	891000	99000	921000
Geometric Mean	**890028**	**121751**	**940453**
PR WQS (Primary Contact)	200 col./100 ml and not more than 20% of samples exceed 400 col/100ml	35 col./100 ml	10,000 col./100 ml
PR WQS (Indirect Contact)	2,000 col./100 ml and not more than 20% of samples exceed 4,000 col/100ml		10,000 col./100 ml

C. NON COMPLIANCE ITEMS

Sanitary wastewater from the Playita neighborhood, consisting of approximately one thousand homes is sent to Baldorioty Pump station and is discharged from the pump station, untreated to Laguna San Jose. The pump station is not authorized to discharge untreated sanitary wastewaters. Based upon review of EPA's database and communications with EPA employees in the Caribbean Environmental Protection Division ("CEPD") in San Juan, this facility does not have a National Pollutant Discharge Elimination System ("NPDES") Permit, nor has a permit application been filed for the discharge from this facility.

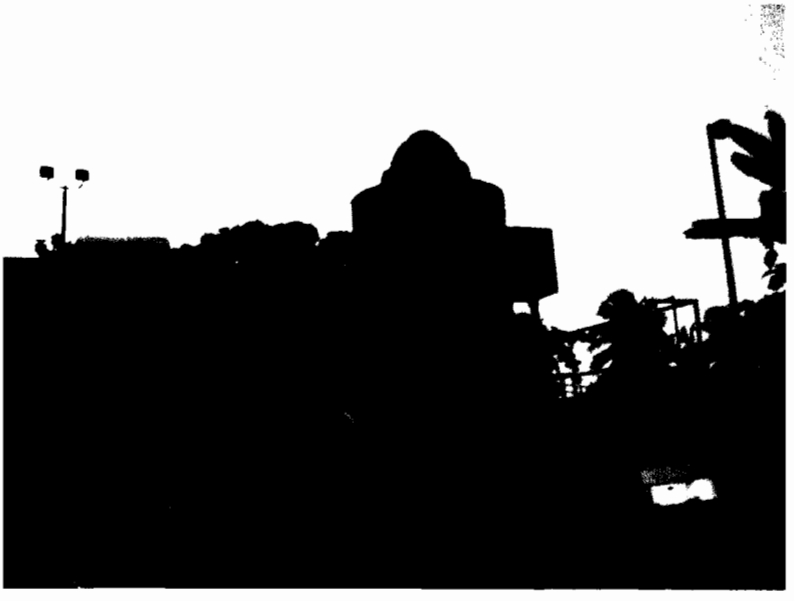
D. AREA OF CONCERN

The pump station discharges both storm water and sanitary wastewater to a channel which flows to San Juan Bay. There are several houses located near the pump station and discharge channel. The presence of untreated sewage in the channel and mist from the turbulent flow in and around the channel from the pump station may pose a health concern to area residents.

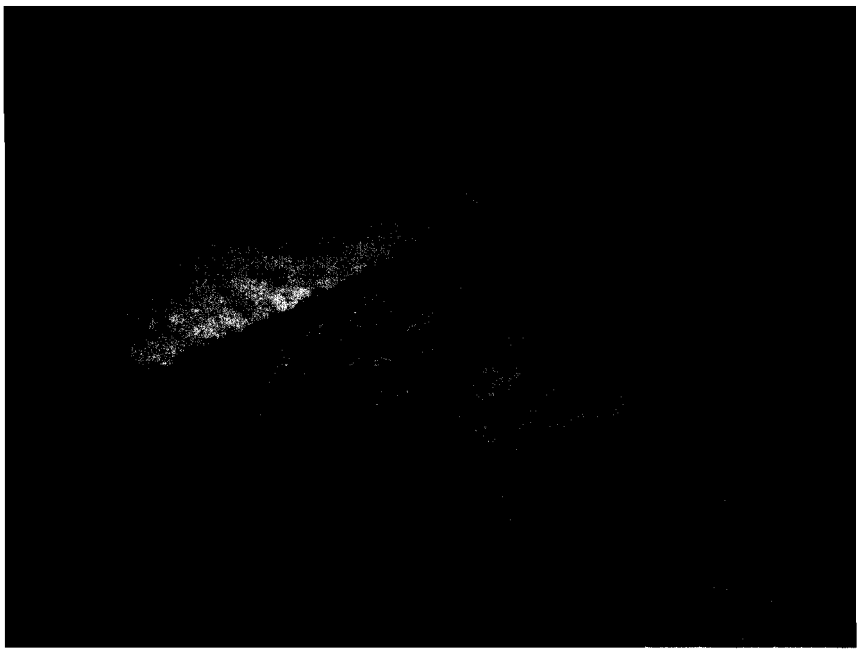
E. ATTACHMENTS

Sampling Results and Chain of Custody and Photographs

PHOTOGRAPHS, DRNA Baldorioty de Castro, Pump Station, San Juan P.R.
May 24, 2005, Taken with Canon Digital Camera by Murray Lantner, P.E. EPA Region 2



1,2. Discharge from one of the pumps at the pump station.



3,4. The effluent channel leading from the pump station to San Juan Bay. Effluent samples were taken in this channel.

COMMONWEALTH OF PUERTO RICO
OFFICE OF GOVERNOR
ENVIRONMENTAL RESEARCH LABORATORY OF PUERTO RICO
ENVIRONMENTAL QUALITY BOARD

Microbiology Section Results

Study Est. Especial (DNR-Baldorioty de Castro) **Date Received** 24/mayo/2005

Station	Fecal Coliform Colonies/100mL	Enterococci Colonias/100mL	Total Coliform Colonias/100mL	Observations
CI	0	0	0	
DNR	Promedio=952,000	Promedio=143,500	Promedio=1,056,000	
DNR-2	839,000	106,000	891,000	
DNR-3	901,000	85,000	936,000	
DNR-4	871,000	209,000	907,000	
DNR-5	891,000	99,000	921,000	
CF	0	0	0	

Analyst Signature Edna C Mulero **Supervisor Signature** Edna C Mulero

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Microbiology Section
Precision as Critical Range

Study Est. Especial DNR-Baldorioty de Castro
Parameter Fecal ,Total Coliform and Enterococci
Order

Method Membrane Filt
Units Colonias/ 100mL
Date Reported 7/junio/2005

Station Nomber	Duplicate		Log A	Log B	/LogA-LogB/
	A	B			
DNR	961,000	943,000	5.9827	5.9745	0.0082(CF)
DNR	148,000	139,000	5.1703	5.1430	0.0273(Entero)
DNR	1,091,000	1,021,000	6.0378	6.0090	0.288(CT)

Analyst Signature Eileen C Vallejo **Supervisor Signature** Eileen C Vallejo

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